

5 **System, Method and Computer Program Product for Point-to-Point Bandwidth Conservation in an IP Network**

Abstract

A method, system and computer program product are provided that reduce voice and data over IP (VoIP) packet overhead in an Internet telephony system, and regenerate missing or damaged data in a data packet. A media framer aggregates packets from multiple concurrent calls from several channels into a larger data packet. A transmission control module defines the format for each data packet, and updates and synchronizes header information in the data packets. A single virtual connection transmits data packets and other signals between originating and destination gateways located in the service areas for a caller and called party. System redundancy improves the quality of service by regenerating missing or damaged data in the data packets.

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